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TUTWEILER-CAMELBACK #1, Maricopa Co. Sec 30-T2N-R4E

G.

Area Lease No. Name D. Jutweiler .- Trostee Location NE NW Sec 30 Twp 2N Range 4E Footage est. 150 ful 2450 ful Total Spud Complete Elev<sup>‡</sup>1215 Gr Jerry 7/4 gun Contractor: Depth \_ KB Date Abandon Ápprox. Cost \$ Drilled by Rotary\_\_\_ Cabla Tool \_\_\_ Casing Size Depth Cement Production Horizon Initial Production • . . REMARKS: Elec. Sample Log Logs Sample Descript Applic Plugging Completion to Plub Record Report Sample Set \_\_\_\_\_ Cores Water well - accepted by Bond Co. & No. Date Bond Am't \$ Cancelled Organization Report Filing Receipt \_\_\_\_ dated \_\_\_\_ Well Book \_\_\_ Plat Book \_\_\_\_ Loc. Plat \_\_\_\_ Dedication \_\_\_\_ API # 02-013-05016

PERMIT NO. None Date Issued

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Thorneaga Co.

#### LOG OF CAMELBACK WELL

NE1, NW1 Sec. 30, T. 2 H., R. 4 E.

Depth	Formation	Thickness
	a.13	4 Feet
0-4 4-64	Soil Cemented hardpan	60
64-60	Loose granite dry	2
66-130	Gemented hardpan	64
150-138	loose granite - water	8
138-160	Cemented hardpan	22
160-182	Sandstone red and gray	22
182-190	Granite, gravel and water	8
190-198	Gray sandstons	8
198-282	Fine clay	84
282-388	Fine clay	106
588-59 <del>9</del>	Granite quarts	2 18
590 <del>-1</del> 08	Clay shale	7
408-415	Shale	8
415-423	Blue granite (very hard)	195
423-618	Shale	1
618-619	Sand (oil seepage)	-
619-658	Shale with apparent veins of	
	sand, oil seepage increasing with	54
	depth, strong gas odor	195
665-846	Shale and heavy clay	
	Total Depth	845
<b>Note</b>	148' of 12" pipe with shoe 14' O.D.	
45-4	ccay of 108 th th th 12 0 Da	
	Bits used 14' to depth 64 feet - 12" to 640	reet
	107 to 846 feet.	
	Signed by W. D. Tanner, Dri	TOP
		_
<del>846-</del> 851	Sandy shale and slate	8
851-862	Shale, slate and clay	11
862-871	Shale and clay	<b>9</b>
871-880	Shale and sandstone etc.	9
880-889	Shale " "	6
889-895	16 P	7
895-902	Shale	\$
902-905		ĭ
905-906	Sand - eil showing	12
906-918	Sha le	12
918-950	Shale and sandstons	9
930-939	Shale and clay	6
9 <b>39-945</b> 945 <b>-953</b>	State and grad	8
951-987	Shale, clay and oil globs	34
987-1011	M M M M	24
1011-1028	Shale and clay	17
1028-1036	Gray milica sand - streams of clay	
	et intervals of 2 feet.	8
1086-1045	Same material but less elay	\$
1945-1052	Gray sandstone - soft and streaky	_
	with large pieces envire	7
1052-1064	There gray sandstone with less white silica	W. Sh.
	sand - Gave good oil colors every bailer	12

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Depth	Formation	Thickness
1064-1075	Very white silies sandstone with little	33 March
1075-1084	oil colors to be seen Dark brown clay smelling very much like	11 Feet
1084-1095	scapstone Black clay and mixed with streaks of white	•
	olsy - also some gray and red sandstone	9
1098-1110	Conglemerate of streaks of slate and gray sand, also streaks of white & brown clay	
*	at intervals of 12" to 15" thick each	17
1110-1117	Almost pure white silics and sandstone and some red sandstone, mixed quite ocarse -	
	gave out Good oil colors every time bailer was run	
1	and small black specks of asphaltum to be seen floating on surface of pond	. 7
1117-1130	Gray silica - sandstone - streaks of white	·
	clay at intervals of about every 2 feet. Here also were good oil colors to be seen	15
1180-1152	Conglomerate of sand clay - also thin layers of gray sandstone, also good oil	
1150 1150	celers to be seen White silies sandstone, quite hard - very	22
1152-1158	fine grained -	6
1156-1170	Gray sandstone and streaks of scapatons - about 5 ft, each	12
1170-1196	white silica - sandstone with streaks of white and dark colored clays in streaks.	26
1196-1210	Gray silica sandstone, also streaks of	
	black and brown clays. Here at this open caveout fine colors of eil, also	
1210-1235	those black asphaltum specks on the water. White and gray silies sandstones mixed,	. 14
	also strates of brown clay - giving out good colers of oil when bailed	25
1235-1260	Gray coarse sandstone and strates of	
	mostly brown clay between at intervals of about 2 feet. At 1260 large black	
	pieces of asphalt oil commenced to come up in the bailer - also commenced to	
	appear very much yellow speeks of paraffir	9 -
1260-1270	condensed - coming up with the bailer. Coarse and gray sandstone, also a good deal	25
	of red sandstone. Mixed in this sandstone the yellow paraffine oil pieses seemed to	,
	increase very much until the pan would be literally covered with those little oil	•
	speeks - every time the bailer was run	10
	Also large black condensed oil pieces eams frequently.	
1270-1262	Principally the same sandstone as from 1260 to 1270 but some streaks of clay	
	were found between but the colors and	
	the yellow oil specks increased until parts of the slush post was literally	
160F	covered with a greasy film of oil Also was a soft gray sandstone with streak	- 12 -
1282~1295	of gray oley coming in between all color	<b>.</b>
	and the yellow paraffine speaks came as plentiful as ever, and colors to cover t	h <b>e</b>
	water continued	11

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Depth

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1295-1500	Five feet of this was hard gray sandstone - two feet of it was gray clay - at 1800 ft. yellow oil specks or globules were as plentiful as before. The above depth was reached June 30 at 6:00 P.M.	
	Yours respectfully	
i	(Signed) Weil Sinolair	
P.S.	From 1260-1298 was the first emountered well saturated or impregnated strata of oil, which I found until the present depth and the future prospect of finding a good oil well at this place looks very encouraging.	•
	N.S.	
July 2, 1906		
1800-1820	Sandy clay with small streaks of sand, rock, oil colors, about as usual but not as atrong	20
1520-1340	Mostly gray and brown clays with some thin strates of white silies sand rock at	
1840-1849	1332 good oil colors appeared again, also the yellow oil globules Gray clay mostly with thin streaks of brown	20
	clay - good oil colors in the clay - also thin strates of same	9
1549-1356	Very dark sugar or brown sandstone - had small pieces of oil rock mixed in. Good colors was shown at the depth	7
1356-1366	White silica sand and red sandstone mixed - showing of oil not se good at this depth	2
1365-1410	Mostly gray and dark colored clays with odd small strates of white silica sandrock. Here at this depth the clays and sand became so much impregnated with those dry particles of asphaltum that it made a brown cil soum in the pan - every time it was beiled.	•
1410-1418	Mostly dark colored elsy with streaks of white silies sand and red mixed showing a good deal of the brown oil sewm on pan	8
1418-1445	Mostly all gray clay with thin sand strate at intervals all showing good oil soun	(15)
1445-1505	white and red milies sendstone with some streaks of gray clay at intervals. At 1460 again was some of that heavy and condensed brown oil - happened to fall	1-4/
1505-1550	in with the caving of shale and sand rock.  Hard gray sand - very compact - also about  three feet very hard song lemerate of line-	60
1530-1548	stone with some quarts at 1508. Fine gray sandstone of medium hardness - at	25
T004-1050	this depth we stopped to wait for the 5-5/8" I.D. casing	10

Formation

Thickness

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Depth	Formation	Thickness
	The streaks of shale and sandstone com- menced to cave so bad that it was com- sidered better to stop boring and case the well to the above depth.	
	This was August 2, 1906	
	A derrick had to be built to a height of 66 feet so that 11 tons in weight of casin could be put in. Aug. 27 commenced puttin in the casing - it took 2-1/2 days to reac the bottom of the well	g
1558-1577	Hard gray sandstone - white streaks of lime- stone and rose colored quarts	19
1577-1690	Dark brown sandstone mixed with asphaltum globules - so it leaves a very heavy black soum of oil - containing these	
1590-1680	asphaltum globlues  Gray and red conglomerate sandstone - also mixed at intervals with gray grindstone sand rook - very coarse always, getting out that asphaltum soum every time the	13
1680-1690	bailer is run Soft fine sand with very pronounced oil colors in the sand. This, the 15th day	90
	of September, when this depth was reached	10
	Signed, Weil Sinolair	
June 8, 190	7	
1690-1755	Dark clay sand with streaks of clay at in- tervals of 18 to 20 feet	45
1785-1762	Brown sand strates with gray clay mixed between	27
1762-1810	Brown sandstone with about half gray clay - colors very strong at 1800 feet	48
1810-1860	About three-fourths gray clay - ene-fourth light colored sand with good oil colors- Dark brewn sand - not much oil colors at	50
1860-1882	this point The bailer was fastened for some time, owing to part of the sandstone passing into the hole	22
1882-1905	Very dark brown sand - some gray clay mixed	
1905-1928	Very brown and rusty iron sandstons - Here also was very good oil colors Very rusty iron sand - a most red - very	28
1940-1962	peculiar sand to be found at that depth Half brown and rusty sand - the other half	12
	gray sandstone Not much color of oil	22
1952-1978	Very dark and brown sandstone, Not much solor of oil	16
1978-1986	Gray sandstone mixed with semegray elay - Some eil colors	8
1986-2021	Very brown and rusty iron-Oxidized sand with some oil colors when bailed	. 85

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Depth	Formation	Thickness
2021-2045	Gray silica sand with some brown sand mixed and some clay streaks mixed in about	24 Feet
2045-2079	every two or three feet Gray sandstone and gray clay - about half and half	25
.207		
	At about 2060 to 2070 some small T.H.R. globules commenced to appear again when bailed	25
2070-2100	Was a gray sand with many oil colors when bailed	80
2100-2130	Gray sand - but iron-stained, containing considerable iron ore	30
2150-2140	Gray and blue sandstone in alternate strates. Here was found an animal	30
2140-2182	fossil, containing a backbone Gray sand strates about three feet thick	10
	with equal size strates with gray clay between. Here was good oil colors	42
2182-2210	Gray sendstone with alternate strates of shale	28
2210-2250	Shale strates mixed with brown sandstone Gray sandstone with about 50 per cent	20
2250-2257	grav clay in alternate stratas - also	
2257-2512	some quarts. Colors showed good. Were stratus of red clay and gray clay in	27
	alternate strates of about three feet thick each, also some streaks of gray	
	sand	55
2312-2540	Gray clay and gray sandstone in alternate strates of about three feet each	28
2340-2354	Gray clay, mostly small streaks of gray sandstone, from 2348 to 2354 the bailer	
	and tools came up all spotted with small particles of tar - very greaty	14
2354-2374	Mostly all gray sandstone with some gray clay mixed	20
2874-2887	Gray sharp sand rock with some red sand mixed very hard	
. *	In this report is the total depth of well up until May 1, 1907	
	Yours most respectfully	
	(signed) Heil Sinolair	
May 12, 190	7	
2587-2599	Gray sandstons - colors good Tools spotted with oil	12
2899-2404	Gray sendstone - oil smears on tools and oable	, <b>5</b>
2404-2428	Gray sandstone - streaks of olay - shows	24
2428-2466	Sandatone and clay	28
2466-2489 2489-2492	Sandstone and clay Gray sandstone - very hard	15 5
2492-2497	Light gray sandstone - very hard and fine grained - no oil showing but dead black	•
	sour on tools	5

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Depth	Formation	Thickness
pepur	A sour A A A A	
2497-2506	Herd sandstone	9
2506-2515	<b>₹</b>	9
2575-2525		8
2523-2530		7
2550-2556	<b>t</b> i	6
2586~2544	# #	8
25 <b>44-254</b> 7	<b>N N</b>	8
2547-2558	स <b>स</b>	6
2553 <b>-2</b> 560	Hard fine grained sandstone - some little trace of gray streaks.	7
	(Signed) W. D. Tanner,	Driller
2560-2566	Hard fine grained sandstone	6
	Some little streaks of clay	7
2566-2573	n n n	? 6章 5章
2579 <del>]-</del> 2585 <del>]</del>	Same	5
25852-2591	Same but little trace of clay	7
2591-2598	Straight sandstone	7
2598-2605	Mostly sand with trace of clay	7
2605-2512	Same formation	9
1612-2619	*	8
2619-2626	<b>#</b>	11
2626-2635	<b>11</b>	7
2635-2648	taran da 🛊 🖠 da santa da san	7
2648-2654	75	8
2654-2661	. 4	7
2661-2668	19.	7
2668-2676	Gray sandstone	8
2676-2683	<b>4</b>	7
2665-2690	" - good colors	7
2690-2698	Water sand at 2694 light silica sand with	
	good oil colors	8
2698-2705	Formation same with heavy soum	7
2705-2712	Some light silica sand with small cutting	
	of blue limestons - good colors	7
2712-2719	Same formation	7
2719-2722	Same to 2720 - struck hard limestone	8
2722-2785	No records	
	(signed)We De Tanner, Driller	
2785-2742	Gray sandatone - good colors	7
	Thru dark slimes	io
2742-2752	Gray sendstone	9
2752-2759	N 9	8
2759-2745		7
2768-2776	Clay and sendstone	6
2776-2765		, <del>•</del>
2785-2789	Clay	
2789-1816		
		•

(Signed) W. D. Tanner, Driller

This is a copy of record of L. D. Tutweiler, Trustee, made by me.

(Signed) Chas. A. Dichl

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#### LOG OF CAMELBACK WELL

MEZ NWZ Sec. 30, T. 2 N., R. 4 E.

Depth	<u>Formation</u>	$\frac{\text{Thickness}}{(\text{Feet})}$
0-4 4-64 64-60 66-130 130-136 138-160 160-182 182-190 190-198 198-282 282-358 386-390 390-408 408-415 415-423 423-618 618-619 619-653	Soil Cemented hardpan Loose Granite dry Cemented hardpan Loose granite - water Cemented hardpan Sandstone red and gray Granite Gravel & Water Gray sandstone Fine clay Fine clay Granite Cuartz Clay Shale Shale Blue Granite (very hard) Shale Sand (oil seepage Shale with apparent veins of sand, oil seepage increasing with depth, Strong gas odor	4 60 2 61: 8 22 22 8 84: 106 2 16 7 8 195 1
653-846	Shale and heavy clay  Total De	
Note	148' of 12" pipe with shoe 14' 0.D. 556' of 10" " " 12' 0.D. Bits used 14' to depht 64 feet - 12" to 64' 10" to 846 feet.  Signed by W. D. Tanner, Dr	
846-851 851-862 862-871 871-860 880-889 889-895 895-902 902-905 905-906 906-918 918-930 930-939 939-945 945-953 953-987 987-1011 1011-1028 1028-1036	Samly shale and slate Shale, slate and clay Shale and sandstone etc. Shale " " Shale " " Shale " " Sand - Oil showing Shale Shale Shale " and Sandstone Shale & clay " " " " Shale, clay & oil globs " " " " " Shale and Clay Gray Silica sand - streaks of clay at intervals of 2 feet. Same material but less clay	5 11 9 9 6 7 3 1 12 12 9 6 8 34 24 17

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Depth	Formation	Thickness
1045-1052	Gray sandstone - soft & streaky with	7
1052-1064	large pieces caving Dark gray sandstone with less white silica sand - Gave good oil colors	12
1064-1075	every bailer Very white Silica Sandstone with little oil colors to be seen	11
1075-1084	Dark brown clay smelling very much like soapstone	9
1084-1093	Plack clay and mixed with streaks of white clay - also some gray and red sandstone between	9
1093-1110	Conglomerate of streaks of slate and gray sand, also streaks of white and brown	20
1110-1117	clay at intervals of 12" to 15" thick each Almost pure white silica and sandstone and some red sandstone, mixed quite coarse - gave out. Good oil colors every time bailer was run and small black specks of asphaltum to be seen floating on sur-	. 1.7
	face of pond	7
1117-1130	Gray Silica - Sandstone - streaks of white clay at intervals of about every. 2 feet. Here also were good oil colors to be seen	13
1130-1152	Conglomerate of sand clay - also thin layers of gray sandstône, also good oil colors to be seen	22
1152-1158	White Silica sandstone, quite hard - Very fine grained	6
1158-1170	Gray sandstone and streaks of soap- stone - about 3 ft. each	12
1170-1196	White silica - Sandstone with streaks of white and dark colored clays in streaks	26
1196-1210	Gray silica sandstone, also streaks of black and brown clays. Here at this open caveout fine colors of oil, also those black asphaltum specks on the water.	. 34
1210-1235	White and gray silica sanistones mixed, also stratas of brown clay - giving out good colors of oil when bailed.	25
1235–1260	Gray coarse sandstone and stratas of mostly brown clay between at intervals of about 2 feet. At 1260 large black pieces of Asphalt oil commenced to come up in the Bailer - also commenced to appear very much yellow specks of paraffin - condensed - coming up with the bailer.	

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Depth	Formation	Thickness
1260–1270	Coerse and gray sandstone, also a good deal of red sandstone. Mixed in this sandstone, the yellow Paraffine oil pieces seemed to increase very much until the pan would be literally covered with those little oil specks - every time the bailer was run. Also large black pieces came frequently.	10
1270-1282	Principally the same sandstone as from 1260 to 1270 but some streaks of clay were found between, but the colors and the yellow oll specks increased until parts of the slush pond was literally covered with a greasy film of oil.	12
1282-1293	Also was a soft gray sandstone with streaks of gray clay coming in between oil colors and the yellow Paraffine specks came as plentiful as ever, and colors to cover the water continued.	11
1293-1300	Five feet of this was hard gray sandstone - two feet of it was gray clay - at 1300 ft. yellow oil specks or globules were as plentiful as before. The above depth was reached June 30 at 6:00 P.N.	
	Yours respectfully	
·	(Signed) Neil Sinclair	
P.S.	From 1260-1298 was the first encountered well saturated or impregnated strata of oil, which I found until the present depth and the future prospect of finding a good oil well at this place looks very encouraging.	en
	N•S•	
July 2, 1906		
1300-1320	Sandy clay with small streaks of sand, rock oil colors, about as usual but not as stron	<b>,</b> g 20
1320-1340	Mostly gray and brown clays with some thin stratas of white silica sand rock at 1332 good oil colors appeared again, also the yellow oil globules	20
1340-1349	Gray clay mostly with thin streaks of brown clay - good oil colors in the clay - also thin stratas of same	9
1349-1356	Very dark sugar or brown sandstone - Had sm pieces of oil rock mixed in. Good colors was shown at the depth.	nall. 7

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Depth	Formation	Thickness
1356-1365	White silica sand and red sandstone mixed - showing of oil not so good at this depth.	9
1365-1410	Mostly gray and dark colored clays with odd small strates of white silica sandrock. Here at this depth the clays and sand became so much impregnated with those dry particles of Asphaltum that it made a brown oil scum in the pan - every time ti was bailed.	45
1410-1418	Mostly dark colored clay with streaks of white silica sand and red mixed showing a good deal of the brown oil scum on pan	8
1418-1445	Mostly all gray clay with thin sand strata at intervals - all showing good oil scum on pan.	(15)
1445-1505	White and red silica sandstone with some streaks of gray clay at intervals. At 1460 again was some of that heavy and condensed brown oil - happened to fall in with the caving of shale and sand rock	60
1505-1530	Hard gray sand - very compact - also about three feet very hard conglomerate of lime- stone with some quartz at 1508.	25
1530-1548	Fine gray sandstone of medium hardness - at this depth we stopped to wait for the 5-5/8" casing	I.D.
	The streaks of shale and sandstone com- menced to cave so bad that it was con- sidered better to stop boring and case the well to the above depth.	
	This was August 2, 1906	
	A derrick had to be built to a height of 66 to so that 11 tons in weight of casing could be Aug. 27 commenced putting in the casing - it 2-1/2 days to reach the bottom of the well	put in.
1558-1577	Hard gray sandstone - white streaks of limestone and rose colored quartz	19
1577-1590	Dark brown sandstone mixed with Asphaltum globules - so it leaves a very heavy black scum of oil - containing these asphaltum bloblues	13
1590-1680	Gray and red conglomerate sandstone - also mixed at intervals with gray grindstone sand rock - very coarse always, getting out that asphaltum scum every time the bailer is run	 <b>90</b>
1680-1690	Soft fine sand with very pronounced oil colors in the sand. This, the 15th day of	

the permit

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Depth	Formation	Thickness
	September, when this depth was reached	10
	Signed, Neil Sinclair	
June 8, 1907		
1690-1735	Dark clay sand with streaks of clay at intervals of 18 to 20 feet	45
1735-1762	Brown sand stratas with gray clay mixed between	27
1762-1810	Brown sandstone with about helf gray clay - Colors very strong at 1800 feet	1,8
1810-1869	About three-fourths gray clay - one-fourth light colored sand with good oil colors -	50
1860-1882	Dark brown sand - not much oil colors at this point. The bailer was fastened for some time, owing to part of the sandstone passing into the hold	22
1882-1905	Very dark brown sand - some gray clay mixed	23
1905-1928	Very brown and rusty iron sandstone - Here also was very good oil colors	23
1928–19և0	Very rusty iron sand - almost red - very peculiar sand to be found at that depth	12
1940-1962	Half brown and rusty sand - the other half gray sandstone. Not much color of oil	22
1962-1978	Very dark and brown sandstone. Not much color of oil.	16
1978-1986	Gray sandstone mixed with some gray clay - Some oil colors	8
1986-2021	Very brown and rusty iron-Oxidized sand with some oil colors when bailed.	n 35
2021-2045	Gray Silica sand with some brown sand mixed and some clay streaks mixed in about every two or three feet	21,
2045-2070	Gray sandstone and gray clay - about half and half	25
	At about 2060 to 2070 some small T.H.R. globules commenced to appear again when bailed	25
2070-2100	Was a gray sand with many oil colors when bailed	30
2100-2130	Gray sand - but iron-stained, containing considerable iron ore	30

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Depth	Formation	Thickness
2130-2140	Gray and blue sandstone in alternate stratas. Here was found an Animal fossil, containing a backbone.	10
2140-2182	Gray sand stratas about three feet thick with equal size stratas with gray clay between. Here was good oil colors.	կ2
2182-2210	Gray sandstone with alternate stratas of shale	28
2210-2230	Shale stratas mixed with brown sandstone	20
2230-2257	Gray sandstone with about 50 per cent gray clay in alternate strates - also some quartz Colors showed good	27
2257-2312	Were stratas of red clay and gray clay in alternate stratas of about three feet thick each, also some streaks of gray sand	55
2312-2340	Gray clay and gray sandstone in alternate stratas of about three feet each	28
2340-2354	Gray clay, mostly small streaks of gray sandstone, from 2348 to 2354 the bailer and tools came up all spotted with small particles of tar - very greasy	114
2354-2374	Lostly all gray sandstone with some gray clay mixed	20
2374-2387	Gray sharp sand rock with some red sand mixed very hard	d 13
	In this report is the total depht of well up until May 1, 1907	
	Yours most respectfully	
	(signed) Neil Sinclair	
Мау 12 <b>,</b> 1907		
2387–2399	Gray sandstone - colors good - tools spotted with oil	12
2399-2404	Gray sandstone - oil smeers on tools and cable	5
2404-2428 2428-2466 2466-2489 2189-2492 2492-2497	Gray sandstone - streaks of clay - shows some colors and smears Sandstone and clay Sandstone " " Gray sandstone - very hard Light gray sandstone - very hard and fine grained - no oil showing but dead black scum on tools.	ne 24 38 13 3

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Depth	Formation	Thickness
2497-2506 2506-2515 2575-2523 2523-2530 2530-2536 2536-2544 2544-2547 2547-2553	Hard Sandstone  " " " " " " " " " " " " " " " " " " Hard fine grained sandstone - Some little trace of gray streaks.	9 9 8 7 6 8 3 6
	(Signed) W. D. Tanner, Drill	ler
2560-2566  2566-2573 2573-2579½ 2579½-2585½ 2585½-2591 2591-2598 2598-2605 2605-2612 2612-2619 2619-2626 2626-2635 2635-2643 2643-2654 2661-2668 2668-2676 2676-2683 2683-2690 2690-2698  2698-2705 2705-2712 2712-2719 2719-2722	Hard fine grained sandstone Some little streaks of clay Same "" "" Same but little trace of clay Straight sandstone Mostly sand with trace of clay Same formation "" "" "" "" "" "" "" "" "" "" "" "" ""	67657777981778778778778773
2722-2735	No records (signed) W. D. Tanner, Driller	
2735-2742 <del>27</del>	Gray sandstone - good colors Thru derk slimes	7 <b>x</b> 8
2742-2752 2752-2759 2759-2768 2768-2776 2776-2783 2783-2789 2789-2818	Gray sandstone  " Clay and sandstone " Clay "	10 7 9 8 7 6

(Signed) W. D. Tanner, Driller

This is a copy of record of L. D. Tutweiler, Trustee, made by me.

(Signed) Chas. A. Diehl

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ITE 1/1, ENT 1/1, 300. 30 - 21-4 E

<u>Papáir</u>	Formation	Thickness
0-1: 61-66 61-66 130-136 130-160 130-162 160-198 190-198 190-262 262-366 368-390 390-408 405-423 405-423 405-423 405-619	Soil Comented Hardpan Loose Granite Dry Comented Hardpan Loose Granite - Water Comented Hardpan Sandstone Red and Gray Granite Gravel & Water Cray Sandstone Fine Clay Fine Clay Granite Quarts Clay Shale Shale Shale Shale Shale Shale Shale Shale With apparent voins of	66. 20. 22. 20. 20. 20. 20. 20. 20. 20. 20
653-846	sand, Cil seepage increasing wit depth. Strong Gas Odor Shale & Hoavy Clay Total D	1931
ero	11.6 of 12" pipe with shoo 11' 0 556 of 10" " " 12' 0 Bits used 14' to depth 64 feet - 10" to 846 feet.  Signed by W. D. T	12" to 640 rest
646-851 651-662 662-871 871-860 889-895 889-995 905-906 906-918 918-930 939-915 953-967 953-967 1011-1028 1028-1036	Sandy shalo & Slate Shale, Slate and Clay Shale and Clay Shale and Sandatone etc. Shale  Shale  Shale  Shale  Shale  Shale  Shale  Shale  And Sandatone  Shale  Shale  Shale  And Sandatone  Shale  Shale  Shale  And Sandatone  Shale  Shale  And Clay  Shale  Shale and Clay  Gray Silica Sand - Streaks of Clay  at intervale of 2 feet.	51. 199.96.751. 12. 12. 12. 12. 12. 13. 14. 17. 18.

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Depth	<u>Formation</u>	ntelmess
1036-1045 1045-1052	Same material but less clay Gray Sandstone - Soft & Stronky	91
1052-1064	with large pieces caving Dark gray Bandstone with less white silica sand - Gave good oil colors	7,
1064-1075	overy bailer Very white Silica Samistone with	12' 11'
1075-1084	little oll colors to be seeb Fark Frown clay smelling very much like scapstone	91
1084-1093	Black clay and pixed with streaks of white clay - also some gray and red sandstone between	91
1093-1110	Conglomerate of streaks of slate and gray sand, also streaks of white & Erown clay at intervals of 12" to	171
1110-1117	15" thick each Almost pure white silica and sand- stone and some red sandstone, mixed quite coarse - gave out Good cil colors every time bailer was run ami small black specks of asphalts to be seen floating on surface of pond	
1117-1130	Gray Silica - Sardstone - streaks of white clay at intervals of about every 2 feet. Here also were good oil colors to be seen	13*
1130-1152	Conglomerate of sand clay - also thin layers of gray sandstone, also good oil colors to be seen	551
1152-1158	White Silica Sandstone, quite hard - Very fine grained	61
1158-1170	Gray Sandstone and stream of scap- stone - about 3 ft. each	12,
1170-1196	White cilics - Sanistone with streaks of white and dark colored clays in streaks.	261
1196-1210	Gray cilica Sandstone, also streaks of black and brown clays. Here at the open caveout fine colors of cil, also those black asphaltum specks on the water.	7/† <sub>1</sub>
1210-1235	White and gray eilice Sandstones mix also strates of brown clay - giving of Good colors of oil whom bailed	out 251

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Depth	Formtion	Thickness
1235-1260	Gray coarse Sandatone and stratas of mostly brown clay between at inter- vals of about 2 feet. At 1260 largo black pieces of Asphalt oil commonced to come up in the Ealler - also commenced to appear very such yellow specks of paraffin - condensed - com- ing up with the baller.	251
1260-1270	Coarse and Gray Sandstons, also a good deal of red Sandstons. Mixed in this Sandstons, the yellow Paraffine oil places seemed to increase very much with the pan would be literally covered with those little oil spacks - every time the baller was run Also large black condensed oil pieces came frequently.	1- 1-
1270-1282	Principally the same sandstone as from 1260 to 1270 but some atreats of clay were found between but the colors and the yellow oil specks increased until parts of the sluch pend was literally covered with a greasy film of oil	
1282-1293	Also was a soft gray sandstone with streaks of gray clay coming in betwee oil colors and the yellow Paraffine specks came as plentiful as ever, and colors to cover the water continued	
1293-1300	Five feet of this was hard gray Sand- stone - two feet of it was gray clay at 1300 ft. <u>vollow oil species</u> or globules were as plentiful as before. The above depth was reached June 30 at 6100 Fells	co.
	Yours respectfully	

(81gmed) Heil Sinclair

Prom 1260-1298 was the first encountered well saturated or impregnated strate of oil, which I found until the present depth and the future prospect of finding a good oil well at this place looks very encouraging.

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May 2, 1966

Depth	Formation	Thickness
1300-1320	Sendy clay with small streaks of Sand, Nock, oil colors, about as usual but not as strong	20 1
1320-1共0	Footly gray and brown clays with some thin stratas of white silica sand rock at 1332 good oil colors appeared again, als the yellow oil globules	201
1340-1349	Gray clay mostly with thin stroaks of brown clay - good oil colors in the clay - also thin strutes of same	91
1349-1356	Very dark sugar or brown sandstone - Had small places of oil rock mixed in. Good colors was shown at the depth	71
1356-1365	white silies sand and had sandstone mixed showing of oil not so good at this depth.	91
1365-1410	Hostly gray and dark colored clays with odd small strates of white silica Sandrock Here at this depth the clays and sand because such impregnated with those dry particl of Asphaltus that it made a brown oil scussin the pan - every time it was bailed.	es
<b>1/10-1/18</b>	Hostly dark colored clay with streaks of white silica sand and red mixed showing a good deal of the brown oil soum on pan	81
14:18-14:5	Mostly all gray clay with thin sand strata at intervals - all showing good oil sour on pan	(15*)
145-1505	White and red milion mandatone with some streaks of gray clay at intervals. At life again was some of that heavy and condensed brown oil - happened to fall in with the caving of whale and sand rock	60 ×
1505-1530	Hard gray sand - very compact - also about feet very hard conglemerate of limestone v some quarts at 1500	three Ath 251
<b>1530-15</b> 48	Fine gray Sardstone of medium hardness - at this depth we stopped to wait for the 5-5/8" I.D. Casing	101
	The streaks of shale and candstone com- menced to cave so had that it was com- sidered better to stop bowing and case the well to the above depth.	<b>6</b>
	This was August 2, 1906	
	A derrick had to be built to a height of that il tone in weight of casing could be Aug. 27 commenced putting in the casing - 2-1/2 days to reach the bottom of the wel	put in. It took

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<u> Poptili</u>	Forsation	h10kness
1559-1577	Hard gray Sandstone - white streaks of Limestone and Rose colored quarts	191
<b>1577-1</b> 590	Dark brown Sandstone mixed with Asphaltum Globules - so it leaves a very heavy black scum of oil - containing these asphaltum Globiuss	13'
1590-1680	Gray and Red Conglomerate Sandstone - also mixed at intervals with gray grindstone sand rock - very coarse always, gotting out that asphaltum sous every time the bailer is run	901
1680~1690	Soft fine sand with very pronounced oil colors in the sand. This, the 15th day of coptember, when this depth was reached	201
	Signed, Meil Sinclair	
June 8, 1907		
1690-1735	Park clay sant with streaks of clay at in- torvals of 18 to 20 feet	451
1735-1762	Brown sand strates with gray clay mixed between	271
1762-1810	Brown pandstone with about half gray clay - Colors very strong at 1800 feet	48+
1810-1860	About three-fourths gray clay - one-fourth light colored sand with good oil colors -	501
1860-1882	Dark brown sand - not much oil colors at this point The bailer was fastoned for some time, owing to part of the sandstone passing into the hole	<b>22</b> *
1882-1905	Very dark brown sand - some gray clay mixed	231
1905-1928	Very brown and rusty from sandstone - Here also was very good oil colors	231
1928-1940	Very rusty iron sand - almost red - very poculiar sand to be found at that depth	121
1940-1962	Half brown and rusty sand * the other half Eray sandatone Not much color of oil	221
1962-1978	Very dark and brown sandstone Not such color of oil	161
1978-1986	Cray sandstone wixed with some gray clay - Some oil colors	8.
1986-2021	Very brown and rusty iron-Oxidized sand wit	ih 351

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Depth	Formation.	Thickness
2021-2045	Gray Silice sami with some brown sami mixed and some clay streaks mixed in about every two or three feet	<b>ी</b> ः <b>।</b>
2045-2070	Oray Sandstone and gray clay - about half and half	251
	At about 2060 to 2070 some small T.H.R. Globules commenced to appear again when bailed	251
2070-2100	Was a gray sand with many oil colors when bailed	301
2100-2130	Gray Sand - but iron-stained, con- taining considerable iron ore	<b>3</b> 0 °
2130-2140	Gray and blue sandstone in alternato strutas. Here was found an Animal fossil. containing a backbone	20*
2140-2182	Gray sand strates about three feet thick with equal size strates with gray clay be- tween. Here was good oil colors	421
2182-2210	Oray sandstone with alternate strates of shale	28:
2210-2230	Shale stratas mixed with brown sandstone	201
2250-2257	Gray Sandstone with about 50 per cent gray clay in alternate stratas - also some quar Colors showed good	tr 271
2257-2312	Were strates of red clay and gray clay in alternate strates of about three feet thic each, also some streaks of gray sand	ik 55⁴
2312-2340	Gray clay and gray sandstone in alternato strates of about three feet each	26 *
2340-2354	Cray clay, mostly small streaks of gray sandstone, from 2348 to 2354 the baller or tools came up all spotted with small parts of tar - very greasy	7 <b>† 1</b> 70J08 7 <u>0</u>
2354-2374	Fostly all gray samistons with some gray onixed	SO.
2374-2387	Gray sharp sand rock with some red sand movery hard	ixed 13'
	In this report is the total depth of well until May 1, 1907 Yours most respect (signed) Reil Sin	fully

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Hay	12,	1907
		~~ / ' '

Popih	Portation	Thicknoss
400 to 100 to 10	Property Company of the State o	
_ 2367-2399	Gray Sandstone - colors good - Tools spotted with oil	12'
2399-240l;	Gray Sandstone - <u>Gil smears on tools</u> and cable	51
निग्ग-भूज	Gray sandstone - streaks of clay - shows some colors and smears	21: 70: 13: 15:
21.20-21.66	Sandstone and clay	301 131
2166-2169 2189-2192	Sandstone and clay Gray Sandstone - very hard	31
24192-2497	Light gray sendstone - very hard and fine grained - no cil showing but dead black soum on tools.	5,
21,97-2506	Mará Sandstone	997 78 78 60 78
2506-2515	fr th	8.
2575-2523		78
2525-2550	B #	Ğ¢ ·
20146-2011	t t	85
25(1-25)7	tt tj	3°
2517-2553	H S S STATE OF THE	71
2953-2560	Hard fine grained Sondatone - Some little trace of gray streaks.	1
	(Signed)W. D. Tanner, D.	_
2560-2566	Hard fine grained sandstons	61
mark & mariner	Some little streaks of clay	641
2566-2573		527
とりイクーとフィグを	ti	7*
26/154-2501	Same but little trace of clay	<b>ት</b> ዩ 71 21
2491-2598	Straight Sandstone	71
2598-2605	Monthy card with troop of clay	Ó t
5002~5015	Same formation	8:
2612-2619 2619-2626	វ	11.
2626-2635	<del>19</del>	7!
2635-2643	tt .	7,
2643-2654		11' 7' 7' 8' 7' 8' 7'
2654-2661	<b>帮</b> 每	7
26 <b>61-</b> 2668 2668-2676	Gray Sandstone	8.
26 <b>76-</b> 2663	at sol their many and	7:
2603-2696	good colors	7*
2690-2698	Water sand at 2694 Light silies sand with	<b>8</b> *
mino emer	Forestion same with heavy soum	71
2690 <b>-2</b> 705 2705 <b>-</b> 2712	Some light silica sand with small outting	
elal-elae	of blue limestone - good colors	71 71 31
2712-2719	Same formation	71
2719-2722	Same to 2720- struck hard limestone	<b>う</b> *
2722-2735	No records (signed) W. D. Tanmer	, Driller

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Donth	<u>Formation</u>	Thloknoss
2735-2742	Gray Sandatone - Good colors Thru dark slines	7† 26† 7†
2762-2752 2752-2759 2759-2768 2768-2776 2776-2783 2783-2789 2789-2818	Grey Sandstone " " Clay & Sandstone Clay	91 81 71

(Signed) W. D. Tonner, Driller

This is a copy of record of L. D. Tubweller, Trustee, made by me. (Signed) Chas, A. Diebl

the permit

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Bowie Oil Lensing Syndicate No. 1 SEANWE Sec. 16, T. 13S., R. 28E.

Commenced \*\*\*\*\*\*?

Completed drilling February 1, 1925

Total dopth 4,110 feet

Shows:

1925-1935 - slight show oil

2100-2300 - sandy shale, slight show oil

2670-2700 - sandy shale, slight show oil and gas

2958-2962 - sand, slight show oil and gas

- shale, slight show oil and gas

3816-4110 - shows oil when tested with chloroform; also

shows H<sub>2</sub>S

Log on file and plotted

Funk Benevelent Corp., No. 1 Fee SELYE Sec. 27, T. 13S., R. 30E.

Commenced drilling 1929

Completed \*\*\*\* Still drilling Desember 1, 1938

Dupth on above date, 6,466 foot

Temperature at 2,430 feet - 165°F

Temperature at 6,400 feet - 274°F

Shows of oil and gas numerous beginning at 1,730 feet and occur-

ing at frequent intervals to bettom.

Holo full of water; operators attempting shut-off and swab test No correlation of formations available but suggestion is offered that the conglomorate in the lower 500 feet of hele may be basal Cretaceous.

Log on file to 6,400 foot

Southern Pacific Railroad Water Woll, Willcox

Scopago active 1928-1930 Total dopth 650 feet Produced light oil, kerosone and gaseline; pumper sold 2,800 gallons to local ranchers at 10¢ per gallon. Woll not used since 1930 Log on file and plotted

GRAHALI COUNTY

Underwriters Syndicate of N. Y. Mary Mack

Total depth 3,767 feet

Shows:

1450-1451 - oil sand

3104-3108 - oil sand

MERICOPA COUNTY

NEWN Sec. 30, T. 2N., R. 42. Comelback No. 1

Drillod 1907 Total depth 2,818 foot Shows numerous between 618 feet and 2,400 feet Log on file and plotted Located on flank of Canelback uplift

#### STATE LAND DEPARTMENT

STATE OF ARIZONA

Phoenix, Arizona

REPORT

0n

" THE OIL POSSIBILITIES OF ARIZONA"

 $\mathtt{B}\mathbf{y}$ 

D. A. HOLLI, Geologist State Lard Department

Commiled under the Direction of

Wei. ALBERTS, State Land Commissioner and JOHN A. DURDEN, Deputy State Land Commissioner

#### STATE LAND BOARD

December 1, 1938

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OIL AND GAS OPERATIONS
P.O. Box OO, Taft, California.

May 1, 1925.

SCOUP REPORT OF ARIZONA

Areas Visited and Data Gathered by H. V. Moffat and
R. B. Canfield in April, 1928.

#### YUNA COUNTY

B. W. Simplair, SBL SBL Section S2, T. 9 S., R. 25 W., G. & S. H. M. Drilled to depth of 1,815 feet. Water not shut off. Operations suspended in February, 1924. Some showings of oil and gas reported. There is no evidence of structure. Information from Mr. Hansy April 10, 1928.

#### WARICOPA COUNTY

Frank Baird. Well No. 1. NR NW Section 4. T. 8 S., R. 15 W., G. & S. R. M. Drilling at 2,400 feet in water; and with cable tools, carrying 10-inch casing. Gas sand encountered at 1,650 feet, no cil shows. Formations penetrated mostly red clay, sand, gravel, and boulders. Well is located on a topographic high in an extremely broad valley. Well visited April 10, 1928. Information from Mr. Barkley, superintendent.

Camelback Well. MR NW Section 50, 7, % N., R. 4 E., G. & S. R. M. Drilled in 1906 and 1907 to depth of 2,789 feet.

Condensed log of Well (Furnished by Bob Thomas, Globe, Arisona)

5 5/6-inch casing set at let 1,505 - 1,550 - Hard gray sand 0 -130 - Soil and comental hardpan 1,550 - 1,680 - Hard gray sandstone 130 -156 - Loose granite - water 388 - Sendstone 1,680 - 1,690 - Congromerate - gray 158 -590 - Granite and quarts and red **388** -1,690 - 2,250 - Gray and brown sand 290 -415 - Stale and sendstone 415 -425 - Nue granite - very hard 864 - Shale and heavy olay 2,280 - 2,513 - Bod and gray clay 425 -2,315 - 2,474 - Gray sends tens 905 - Shale, slate, and clay 844 -2,574 - 2,497 - Seer sendstone and 905 - 906 - Send - 511 showing 906 - 1,028 - Shale and elay streaks of clay -1,028 - 1,064 - Gray sandstone - trace oil oil mears on tools 2,497 - 2,548 - Sand with trace of 1,066 - 1,110 - Clay 2,668 - 2,690 - elsy 1,118 - 1,117 - White silica sandstone 1,117 - 1,300 - Coarse gray sandstone 2,668 - 2,690 - Gray sendstons 2,690 - 2,698 - Water sand 1,500 - 1,546 - Clay 2,698 - 2,768 - Gray manda bene 1,349 - 1,410 - Sendstone 2,768 - 2,769 - Clay and sand 1\_410 - 1\_505 - Sendstone

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Provide the second

844 E83 PH

High Gravity Oil burning at seepage, Chicago Ave. and Thomas Road, NE of Phcenix, SE SW Sec. 30, T. 2 N. R. 4 E. Seepage from water weal, 172 feet deep, pumping about 500,000 gallons water daily.

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High Gravity Oil burning at seepage, Chicago Averand Thomas Road, NE of Phoenix, SE SW Sec. 30, T. 2 N. R. 4 E. See age from water weal, 172 feet deep, pumping about 500,000 gallons water daily.

DEL VICTURERAT OF TATE HAT EVICTOR GEOLOGICAL SURVEY 112°00' 1410( 409 33°30′ 3706000m.N 3705 empe 7.5' 3703 Arizona State\_Hospital 27'30" N. N. 80 50 (,: <u>60</u> Stockyard sau den 3701 Breblo Grande Museum Sewage Tovres

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Meterical posteriors CIMEL PACKT JUNE 8(!) aly et . in weepon weereny aly et . in weepon COMMENCED COMPLETED REMARKS:

5 4.10 1998 2500 (-) Trustee

LOG

Trustee

LOG

TUTWEILER-CAMELBACK #1

NE4NW4, Section 30, 2-N 4-E.

Depth

t anderse

Formation

Maricopa County

Thickness

0 - 4'	Soil	4'
4 - 64	Cemented Hardpan	60
64 ~ 60	Loose Granite Dry	<b>2</b>
66 - 130	Cemented Hardpan	64
	Loose Granite - Water	8
130 - 138		22
138 - 160	Cemented Hardpan	22
160 ~ 182	Sandstone Red and Gray	8
182 - 190	Granite Gravel & Water	
190 ~ 198	Gray Sandstone	8
198 - 282	Fine Clay	84
282 - 388	Fine Clay	106
388 ~ 390	Granite Quartz	2
390 - 408	Clay Shale	18
408 - 415	Shale	7
	Blue Granite (Very Hard)	8
415 - 423	7	195
423 - 618	Shale	1
618 - 619	Sand (oil seepage)	•
619 - 653	Shale with apparent veins of sand,	
	oil seepage increasing with depth,	5.4
	strong gas odor	34
653 - 846	Shale & Heavy Clay	193
	•	
	Total Depth	846'
Note:	148' of 12" pipe with shoe 14' 0.D.	
11000.	556' of 10" nine with shoe 12' 0.D.	
	Bits used 14' to depth 64 feet - 12"	to 640 feet
	10" to 846 feet.	
	10 60 040 1660.	
	Signed by W. D. Tanner,	Driller
	Old Street	<del></del>
0.10 0.53		F 1
976 - 951	Sandy shale and slate	5'
846 - 851	Sandy shale and slate	
851 - 862	Shale, slate and clay	11
851 - 862 862 - 871	Shale, slate and clay Shale and clay	11 9
851 - 862 862 - 871 871 - 880	Shale, slate and clay Shale and clay Shale and sandstone etc.	11 9 9
851 - 862 862 - 871 871 - 880 880 - 889	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc.	11 9 9
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone	11 9 9 9 6
851 - 862 862 - 871 871 - 880 880 - 889	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc.	11 9 9 9 6 7
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale	11 9 9 9 6 7 3
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale	11 9 9 9 6 7 3
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Shale Sand - Oil showing	11 9 9 9 6 7 3
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Sand - Oil showing Shale	11 9 9 9 6 7 3
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Sand - Oil showing Shale Shale Shale	11 9 9 9 6 7 3 1 12 12
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Shale Sand - Oil showing Shale Shale Shale Shale Shale Shale	11 9 9 9 6 7 3 1 12 12 9
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale	11 9 9 9 6 7 3 1 12 12 9 6
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale & Clay Shale & Clay	11 9 9 9 6 7 3 1 12 12 9 6 8
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953 953 - 987	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Shale Sand - Oil showing Shale Shale Shale Shale Shale Shale and Sandstone Shale & Clay Shale, Clay & Oil Globs	11 9 9 6 7 3 1 12 12 9 6 8 34
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953 953 - 987 987 - 1011	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Sand - Oil showing Shale Shale Shale Shale Shale & Clay Shale & Clay Shale, Clay & Oil Globs Shale, Clay & Oil Globs	11 9 9 6 7 3 1 12 12 9 6 8 34 24
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953 953 - 987	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Sand - Oil showing Shale Shale Shale Shale Shale & Clay Shale & Clay Shale, Clay & Oil Globs Shale, Clay & Oil Globs Shale and Clay	11 9 9 6 7 3 1 12 12 9 6 8 34
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953 953 - 987 987 - 1011	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Sand - Oil showing Shale Shale Shale Shale Shale & Clay Shale & Clay Shale, Clay & Oil Globs Shale, Clay & Oil Globs	11 9 9 9 6 7 3 1 12 12 9 6 8 34 24 17
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953 953 - 987 987 - 1011 1011 - 1028	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Sand - Oil showing Shale Shale Shale Shale Shale & Clay Shale & Clay Shale, Clay & Oil Globs Shale, Clay & Oil Globs Shale and Clay	11 9 9 9 6 7 3 1 12 12 9 6 8 34 24 17
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851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953 953 - 987 987 - 1011 1011 - 1028 1028 - 1036	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Shale Shale Shale Shale Shale Shale Shale and Sandstone Shale & Clay Shale & Clay Shale, Clay & Oil Globs Shale, Clay & Oil Globs Shale and Clay Gray Silica Sand - Streaks of Clay at intervals of 2 feet. Same material but less clay	11 9 9 9 6 7 3 1 12 12 9 6 8 34 24 17
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851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953 953 - 987 987 - 1011 1011 - 1028 1028 - 1036 1036 - 1045 1045 - 1052 1052 - 1064	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Shale Shale Shale Shale Shale and Sandstone Shale & Clay Shale & Clay Shale, Clay & Oil Globs Shale, Clay & Oil Globs Shale, Clay & Oil Globs Shale and Clay Gray Silica Sand - Streaks of Clay at intervals of 2 feet. Same material but less clay Gray Sandstone- Soft & Streaky with large pieces caving Dark gray sandstone with less white silica sand - Gave good oil colors every bailer Very white Silica Sandstone with lit oil colors to be seen	11 9 9 9 6 7 3 1 12 12 9 6 8 34 24 17 8 9
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953 953 - 987 987 - 1011 1011 - 1028 1028 - 1036 1036 - 1045 1045 - 1052 1052 - 1064	Shale, slate and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Shale Shale Shale Shale Shale Shale and Sandstone Shale & Clay Shale & Clay Shale, Clay & Oil Globs Shale, Clay & Oil Globs Shale, Clay & Oil Globs Shale and Clay Gray Silica Sand - Streaks of Clay at intervals of 2 feet. Same material but less clay Gray Sandstone- Soft & Streaky with large pieces caving Dark gray sandstone with less white silica sand - Gave good oil colors every bailer Very white Silica Sandstone with lit oil colors to be seen Dark Brown clay smelling very much	11 9 9 9 6 7 3 1 12 12 9 6 8 34 24 17 8 9 7
851 - 862 862 - 871 871 - 880 880 - 889 889 - 895 895 - 902 902 - 905 905 - 906 906 - 918 918 - 930 930 - 939 939 - 945 945 - 953 953 - 987 987 - 1011 1011 - 1028 1028 - 1036 1036 - 1045 1045 - 1052 1052 - 1064	Shale, slate and clay Shale and clay Shale and sandstone etc. Shale and sandstone, etc. Shale and Sandstone Shale Shale Shale Shale Shale Shale Shale and Sandstone Shale & Clay Shale & Clay Shale, Clay & Oil Globs Shale, Clay & Oil Globs Shale, Clay & Oil Globs Shale and Clay Gray Silica Sand - Streaks of Clay at intervals of 2 feet. Same material but less clay Gray Sandstone- Soft & Streaky with large pieces caving Dark gray sandstone with less white silica sand - Gave good oil colors every bailer Very white Silica Sandstone with lit oil colors to be seen	11 9 9 9 6 7 3 1 12 12 9 6 8 34 24 17 8 9

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# LOG OF CAMELBACK WELL (Continued) NE 1NW 1 of Section 30, 2-N 4-E

TUTWEILER-CAMELBACK #1 Maricopa County

	,	
1085 - 1093	Black clay and mixed with streaks of white clay - also some gray and red sandstone	
	between	91
1000 3110	Conglomerate of streaks of slate and gray	
1093 - 1110	eand also streaks of white & Drown Clay	
	at intervals of 12" to 15" thick each	17
1110 - 1117	Almost pure white silica and sandstone	
1110 - 111.	and some red candstone, mixed quite coarse -	
	gave out a Good oil colors every time barrer	
	was run and small black specks of asphaltum	7
	to be seen floating on surface of pond	•
1117 - 1130	Gray Silica - Sandstone - streaks of white	
	clay at intervals of about every 2 feet. Here also were good oil colors to be seen	13
	Conglomerate of sand clay - also thin layers	
1130 - 1152	of gray sandstone, also good oil colors to	
	be seen	22
1152 - 1158	White Silica Sandstone, quite hard - Very	
1132 = 1136	fine grained	6
1158 - 1170	Gray Sandstone and streaks of soap-stone -	12
1100 12.5	about 3 ft each	14
1170 - 1196	White Silica - Sandstone with streaks of	26
	white and dark colored clays in streaks	20
1196 - 1210	Gray Silica Sandstone, also streaks of	
	black and brown clays. Here at this open caveout fine colors of oil, also those	
•	black asphaltum specks on the water.	14
-0-0 1005	White and gray silica sandstones mixed, also	
1210 - 1235	stratas of brown clay - giving out good	
	colors of oil when bailed	25
1235 - 1260	Gray coarge Sandstone and stratas of mostly	
1255 - 1200	brown clay between at intervals of about	
	o feet At 1260 large black pieces of	
	Asphalt oil commenced to come up in the	
	Bailer - also commenced to appear very much	
	yellow specks of paraffin - condensed -	25
	coming up with the bailer. Coarse and gray Sandstone, also a good deal	
1260 - 1270	of red Sandstone. Mixed in this Sandstone,	
	the yellow Paraffine oil pieces seemed to	
	ingrease yery much until the pan would be	
	literally covered with those little oil specks	-
	overy time the bailer was run. Also large	
	black condensed oil pieces came irequently.	10
1270 - 1282	Drineinally the same sandstone as irom	
	1260 to 1270 but some streaks of clay were	
	found between but the colors and the yellow	
	oil specks increased until parts of the slush pend was literally covered with a greasy	
	siush pond was literally covered with a ground	12
1005	film of oil. Also was a soft gray sand sandstone with	
1282 - 1293	streaks of gray clay coming in between oil	
	colors and the vellow Paraffine specks came	
	as plentiful as ever, and colors to cover	<b>-</b> -
	the water continued.	11
1293 - 1300	Five feet of this was hard gray Sandstone -	
	two feet of it was grav clay - at 1300 It.	
	vellow oil specks or globules were as plentilul	<b>L</b>
	as before. The above depth was reached June	
	30 at 6:00 P.M.	

Yours respectfully,

(Signed) Neil Sinclair

# LOG OF CAMELBACK WELL (Continued)

NEINWI of Section 30, 2-N 4-E

TUTWEILER-CAMELBACK #1 Maricopa County

P. S.

From 1260 - 1298 was the first encountered well saturated or impregnated strata of oil, which I found until the present depth and the future prospect of finding a good oil well at this place looks very encouraging.

N. S.

July 2, 1906		
Depth	Formation Th	ickness
1300 - 1320	Sandy clay with small streaks of Sand, Rock, oil colors, about as usual but not as strong	20 '
1320 - 1340	Mostly gray and brown clays with some thin stratas of white silica sand rock at 1332 good oil colors appeared again, also the yellow oil globules	20
1340 - 1349	Gray clay mostly with thin streaks of brown clay - good oil colors in the clay - also thin stratas of same	9
1349 - 1356	Very dark sugar or brown sandstone - Had small pieces of oil rock mixed in. Good colors was shown at the depth.	7
1356 - 1365	White silica sand and red sandstone mixed - showing of oil not so good at this depth.	9
1365 - 1410	Mostly gray and dark colored clays with odd small stratas of white silica sandrock Here at this depth the clays and sand became so much impregnated with those dry particles of Asphaltum that it made a brown oil scum	
1410 - 1418	in the pan - every time it was bailed.  Mostly dark colored clay with streaks of white silica sand and red mixed showing a goo	45 d
1418 - 1445	deal of the brown oil scum on pan  Mostly all gray clay with thin sand strata	8
	at intervals - all showing good oil scum on pan	(15)
1445 - 1505	White and red silica sandstone with some streaks of gray clay at intervals. At 1460 again was some of that heavy and condensed	
•	brown oil - happened to fall in with the caving of shale and sand rock	60
1505 - 1530	Hard gray sand - very compact - also about three feet very hard conglomerate of lime- stone with some quartz at 1508	25
1530 - 1548	Fine gray Sandstone of medium hardness - at this depth we stopped to wait for the 5-5/8" I. D. Casing	10
	mus strong of chale and sendstone commenced	to cave

The streaks of shale and sandstone commenced to cave so bad that it was considered better to stop boring and case the well to the above depth.

This was August 2, 1906

A derrick had to be built to a height of 66 feet so that 11 tons in weight of casing could be put in.

Aug. 27 commenced putting in the casing - it took

2-2 days to reach the bottom of the well.

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# LOG OF CAMELBACK WELL (Continued) NEINWI of Section 30, 2-N 4-E Hard gray sandstone - white streaks of Limestone and Rose colored quartz Dark brown Sandstone mixed with Asphaltum

# TUTWEILER-CAMELBACK #1 Maricopa County

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1577 - 1590	Dark brown Sandstone mixed with Asphaltum Globules - so it leaves a very heavy black scum of oil - containing these asphaltum	10
	globules Gray and Red Conglomerate Sandstone - also	13
1590 - 1680	mired of intervals with gray grindstone sand	
	rock very coarse always, getting out that asphaltum scum every time the bailer is run	90
1680 - 1690	Soft fine sand with very pronounced cil colors in the sand. This, the 15th day of September,	
	when this depth was reached	10
	(Signed) Neil Sinclair	
June 8, 1907		
1690 - 1735	Dark clay sand with streaks of clay at intervals of 18 to 20 feet	45
1735 = 1762	Brown sand stratas with gray clay mixed	27
1762 - 1810	bstween Brown sandstone with about half gray clay-	
	Colors very strong at 1800 feet	48
1810 - 1860	About three-fourths gray clay - one-fourth light colored sand with good oil colors -	50
1860 - 1882	Dark brown sand - not much oil colors at this	
	point. The bailer was fastened for some time, owing to part of the sandstone passing into	
	the hole	22
1882 - 1905	Very dark brown sand - some gray clay mixed	23
1905 - 1928	Very brown and rusty iron sandstone - Here also was very good oil colors	23
1928 - 1940	Very rusty iron sand, almost red - very	10
	peculiar sand to be found at that depth Half brown and rusty sand - the other half	12
1940 - 1962	gray sandstone. Not much color of oil	22
1962 - 1978	Very dark and brown sandstone. Not much color of oil	16
1978 - 1986	Gray sandstone mixed with some gray clay -	8
1000 0001	Some oil Colors Very brown and rusty iron-Oxidized sand with	0
1986 - 2021	some oil colors when bailed	35
2021 - 2045	Gray Silica sand with some brown sand mixed and some clay streaks mixed in 2-3 ft.	24
2045 - 2070	Gray Sandstone and gray clay - about hall	25
	and half At about 2060 to 2070 some small T.H.R.	20
	globules commenced to appear again when	25
2070 ~ 2100	bailed Was a gray sand with many oil colors when	23
2010 ∞ 2100	bailed	30
2100 - 2130	Gray Sand - but iron-stained, containing considerable iron ore	30
2130 - 2140	Gray and blue sandstone in alternate stratas.	
	Here was found an Animal fossil, containing a backbone	10
2140 - 2182	Gray sand stratas about three feet thick with	
	equal size stratas with gray clay between. Here was good oil colors	42
2182 - 2210	Gray sandstone with alternate stratas of	
	shale	28 20
2210 - 2230 2230 - 2257	Shale stratas mixed with brown sandstone Gray Sandstone with about 50 per cent gray	20
QQUV ∞ QQUI	clay in alternate stratas - also some quartz	~~
	Colors showed good	27

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LOG OF CAMELBACK WELL (Continued)

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LOG OF CAMELBACK W	ELL (Continued)	TUTWEILER-CAMELBACK #1
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> of Section	30 2N 4E	Maricopa County
MEANIA OI DECEION	00, 2-N 4-D	· · · · · · · · · · · · · · · · · · ·
	•	
2257 - 2312	Were stratas of red clay and	gray clay in
2231 - 2012	alternate stratas of about t	hree feet thick
	each, also some streaks of g	ray sand 55
2312 - 2340	Gray clay and gray sandstone stratas of about three feet	each 28
2340 - 2354	Grav clav. mostly small stre	aks of gray
	sandstone from 2348 to 2354	the baller
	and tools came up all spotte particles of tar - very grea	o with small sv 14
2354 - 2374	Mostly all gray sandstone wi	th some gray
	clav mixed	20
2374 - 2387	Gray sharp sand rock with so	me red sand 13
	mixed very hard	
	In this report is the total	depth of well up until
	May 1, 1907	
	Yours mos	st respectfully,
	(Signed)	Neil Sinclair
May 19 1007		
May 12, 1907		
2387 - 2399	Gray Sandstone - colors good	d - Tools 12
8200 9404	Spotted with oil Gray Sandstone - oil smears	
2399 - 2404	and cable	<b>5</b>
2404 - 2428	Gray sandstone - streaks of	clay - shows
0.400 0.400	some colors and smears	24 38
2428 - 2466 2466 - 2489	Sandstone and clay Sandstone and clay	13
2489 - 2492	Grav Sandstone - very hard	3
2492 - 2497	Light gray sandstone - very	hard and fine
	grained - no oil showing bu on tools	5
2497 - 2506	Hard Sandstone	9
<b>2506 - 2515</b>	Hard Sandstone	9 8
2515 <b>-</b> 2523 2523 <b>-</b> 2530	Hard Sandstone Hard Sandstone	7
2530 - 2536	Hard Sandstone	6
2536 - 2544	Hard Sandstone	8 3
2544 - 2547	Hard Sandstone	6
2547 - 2553 2553 - 2560	Hard Sandstone Hard fine grained Sandstone	
2000 - 2000	trace of gray streaks.	7
	(Signod)	W. D. Tanner, Driller
	(Signed)	ii. D. Idillot, Dataton
2560 <b>- 2</b> 566	Hard fine grained sandstone	6
	Some little streaks of clay	64
$\begin{array}{r} 2566 - 2573 \\ 2573 - 2579\frac{1}{2} \end{array}$	Same Same	52
2579 <del>3</del> - 2585 <del>2</del>	Same	7
$2585\frac{1}{2}$ - 2591	Same but little trace of c	1
2591 - 2598 2598 - 2605	Straight Sandstone Mostly sand with trace of	clav 7
2605 - 2612	Same formation	9
2612 - 2619	Same formation	8 · 11
2619 - 2626	Same formation Same formation	7
2626 - 2635 2635 - 2643	Same formation	7
2643 - 2654	Same formation	8

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TUTWEILER-CAMELBACK #1 LOG OF CAMELBACK WELL (Continued) Maricopa County NE4NW4 of Section 30, 2-N 4-E 2654 - 2661 Same formation Same formation 2661 - 2668 Gray Sandstone 2668 - 2676 2676 - 2683 Gray Sandstone " - good colors 2683 - 2690 Water sand at 2694 Light silica sand with 2690 - 2698good oil colors Formation same with heavy scum 2698 - 2705 Some light silica sand with small cutting 2705 - 2712of blue limestone - good colors 2712 - 2719Same formation Same to 2720 - struck hard limestone 2719 - 27222722 - 2735 No records (Signed) W. D. Tanner, Driller 7 Gray Sandstone - good colors 2735 - 274210 Thru dark slimes 2742 - 2752Gray Sandstone 2752 - 2759 2759 - 2768 Gray Sandstone Gray Sandstone 2768 - 2776 Clay & Sandstone 2776 - 2783 Clay & Sandstone 2783 - 2789 2789 - 2818 Clay Clay

This is a copy of record of L. D. Tutweiler, Trustee, made by me.

(Signed) Chas. A. Diehl

A STATE OF STATE OF STATE

(Signed) W. D. Tanner, Driller

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